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OM protein - protein search, using sw model

Run on: September 4, 2002, 16:10:49 : Search time 99.82 Seconds
(without alignments)
115.007 Million cell updates/sec

Title: US-09-052-089A-2
Perfect score: 2393
Sequence: 1 MPILSLCTICSDFFDHSRDV.....VRKTVSSASQPKLPTPLCQ 470

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
Issued_Patents_AA :
1: /cgn2_6/prodata/2/1aa/5A_COMB.pep.*
2: /cgn2_6/prodata/2/1aa/5B_COMB.pep.*
3: /cgn2_6/prodata/2/1aa/6A_COMB.pep.*
4: /cgn2_6/prodata/2/1aa/6B_COMB.pep.*
5: /cgn2_6/prodata/2/1aa/PCTUS_COMB.pep.*
6: /cgn2_6/prodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2393	100.0	470	4	US-09-052-089A-2
2	1826.5	76.3	459	2	US-08-968-751-2
3	1798.5	75.2	469	4	US-09-052-089A-1
4	1075	44.9	220	4	US-09-052-089A-4
5	905	37.9	220	4	US-09-052-089A-3
6	293	12.2	51	4	US-09-052-089A-6
7	260	10.9	51	4	US-09-052-089A-5
8	172.5	7.2	2482	1	US-08-328-254-6
9	172.5	7.2	3248	5	US-08-353-700-1
10	172.5	7.2	3248	5	PCT-US95-16216-1
11	170	7.1	1093	5	PCT-US93-03077-1
12	169	7.1	1090	4	US-09-085-1998-5
13	168.5	7.0	576	2	US-08-533-306A-2
14	168.5	7.0	576	2	US-08-742-923A-2
15	168.5	7.0	816	2	US-08-533-306A-6
16	168.5	7.0	816	2	US-08-742-923A-6
17	168.5	7.0	885	2	US-08-533-306A-4
18	168.5	7.0	885	2	US-08-742-923A-4
19	166.5	7.0	914	4	US-09-085-1998-4
20	160	6.7	1886	4	US-08-938-105-3
21	160	6.7	1939	4	US-09-310-187A-1
22	159.5	6.7	896	1	US-08-095-737-2
23	159.5	6.7	896	2	US-08-480-145-2
24	159.5	6.7	896	2	US-08-477-389-2
25	158.5	6.6	414	5	PCT-US93-03077-3
26	157	6.6	1184	4	US-09-541-782-2
27	153.5	6.4	443	2	US-08-795-475-6

28	153.5	6.4	976	4	US-09-104-324B-4	Sequence 4, Appl1
29	152.5	6.4	2101	1	US-08-466-390-4	Sequence 4, Appl1
30	152.5	6.4	2101	1	US-08-470-950-4	Sequence 4, Appl1
31	152.5	6.4	2101	1	US-08-467-781-4	Sequence 4, Appl1
32	152.5	6.4	2101	1	US-08-195-487-4	Sequence 4, Appl1
33	152.5	6.4	2101	2	US-08-483-924-4	Sequence 4, Appl1
34	152.5	6.4	2101	2	US-09-452-294-4	Sequence 1, Appl1
35	152.5	6.4	2101	5	PCT-US93-06160-4	Sequence 4, Appl1
36	149	6.2	1068	4	US-09-085-1998-11	Sequence 11, Appl1
37	147.5	6.2	316	4	US-08-098-327E-31	Sequence 31, Appl1
38	147.5	6.2	316	4	US-08-462-625-31	Sequence 2, Appl1
39	146.5	6.1	1805	1	US-07-853-913-2	Sequence 148, Appl1
40	146	6.1	1312	2	US-08-592-126-148	Sequence 51, Appl1
41	146	6.1	1312	2	US-08-687-080-51	Sequence 2, Appl1
42	145.5	6.1	1005	2	US-08-935-450-2	Sequence 2, Appl1
43	145	6.1	386	4	US-09-085-1998-2	Sequence 4, Appl1
44	143	6.0	1388	2	US-08-685-576-4	Sequence 4, Appl1
45	142.5	6.0	897	1	US-08-095-737-4	Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-09-052-089A-2
; Sequence 2, Application US/09052089A
; Patent No. 6346605
; GENERAL INFORMATION:
; APPLICANT: Lee, Soo Y.
; Chai, Yongwon
; TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TGF RECEPTOR SUPER
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/052,089A
; FILING DATE: 31-Mar-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 470 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; ORGANISM: mouse
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-052-089A-2
Query Match 100.0%; Score 2393; DB 4; Length 470;

REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 469 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
FRAGMENT TYPE: <Unknown>
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-052-089a-1

Query Match 75.2%; Score 1798.5; DB 4; Length 469;
Best Local Similarity 76.9%; Pred. No. 2.8e-142;
Matches 360; Conservative 41; Mismatches 66; Indels 1; Gaps 1;

QY 1 MPILSLCTICSDFFDHSRDVAHICGHTFHLQCLIQMFETAPSRTPCQCRIOVGKKTIIIN 60
DB 1 MPILSLCTICSDFFDHSRDVAHICGHTFHLQCLIQMFETAPSRTPCQCRIOVGKKTIIIN 60
QY 61 KLFFDLQAEENVDLDAEFLKNELDVYKAQSLQKREKRDSDAIITDLRTLEENATYVES 120
DB 61 KLFFDLQAEENVDLDAEFLKNELDVYKAQSLQKREKRDSDAIITDLRTLEENATYVES 120
QY 121 LQNLAKAEMLCTSLKKOMKFLQRODETKQAREEAHRLCKMKMTWQIELLLOSRESEV 180
DB 121 LQNLAKAEMLCTSLKKOMKFLQRODETKQAREEAHRLCKMKMTWQIELLLOSRESEV 180
QY 181 EEMIRDMGVGSAVEQALVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSKLTIN 240
DB 181 EEMIRDMGVGSAVEQALVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSKLTIN 240
QY 241 TELQATLELRSADKQDSADQETSLRKKSDPPGNIPEASATNEYSRIVFESPAPVE 300
DB 241 TELQATLELRSADKQDSADQETSLRKKSDPPGNIPEASATNEYSRIVFESPAPVE 300
QY 301 MNPNRLHOPPGDEIDINTPTDVTPTOTSGSOHCLPKLCLERARSPMONVLKKVHV 360
DB 301 MNPNRLHOPPGDEIDINTPTDVTPTOTSGSOHCLPKLCLERARSPMONVLKKVHV 360
QY 361 SKPESQSLSGQRCVGELEELAGAFPLFIINAVLGOKQAPRTTAESRSSTDVYRIGFDG 420
DB 361 SKPESQSLSGQRCVGELEELAGAFPLFIINAVLGOKQAPRTTAESRSSTDVYRIGFDG 420
QY 421 LGGRTKFIQPRDITIRPVYKSKAKSKQKIRITVSSASQPKIDTFL 468
DB 421 LGGRTKFIQPRDITIRPVYKSKAKSKQKIRITVSSASQPKIDTFL 468
DB 420 LGGRTKFIQPRDITIRPVYKSKAKSKQKIRITVSSASQPKIDTFL 467

RESULT 4
US-09-052-089a-4
Sequence 4, Application US/09052089A
Patent No. 6346605
GENERAL INFORMATION:
APPLICANT: Lee, Soo Y.
Choi, Yongwon
TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
FAMILY, AND USES THEREOF
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA

ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,089A
FILING DATE: 31-Mar-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
FRAGMENT TYPE: Internal
ORIGINAL SOURCE:
ORGANISM: mouse
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-052-089a-4

Query Match 44.9%; Score 1075; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 2.5e-82;
Matches 220; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 56 KTIINKLFFDLQAEENVDLDAEFLKNELDVYKAQSLQKREKRDSDAIITDLRTLEERN 115
DB 1 KTIINKLFFDLQAEENVDLDAEFLKNELDVYKAQSLQKREKRDSDAIITDLRTLEERN 115
QY 116 ATVESLQNALKAEMLCSTLKKOMKFLQRODETKQAREEAHRLCKMKMTWQIELLLOS 175
DB 116 ATVESLQNALKAEMLCSTLKKOMKFLQRODETKQAREEAHRLCKMKMTWQIELLLOS 175
QY 176 ORSEVEEIRMGVGSQSAVEQALVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSK 235
DB 176 ORSEVEEIRMGVGSQSAVEQALVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSK 235
QY 236 LKTIINTELDAKLELRSADKQDSADQETSLRKKSDPP 275
DB 236 LKTIINTELDAKLELRSADKQDSADQETSLRKKSDPP 275
DB 181 LKTIINTELDAKLELRSADKQDSADQETSLRKKSDPP 220

RESULT 5
US-09-052-089a-3
Sequence 3, Application US/09052089A
Patent No. 6346605
GENERAL INFORMATION:
APPLICANT: Lee, Soo Y.
Choi, Yongwon
TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
FAMILY, AND USES THEREOF
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,089A
FILING DATE: 31-Mar-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 220 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
FRAGMENT TYPE: Internal
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-052-089A-3

Query Match 37.9%; Score 906; DB 4; Length 220;
Best Local Similarity 86.0%; Pred. No. 3.2e-68;
Matches 185; Conservative 18; Mismatches 12; Indels 0; Gaps 0;

QY 56 KTIINKLFEFDIAOEENLVDAEFLKNELDVSKAQLSQDKRKRDSQATITDLPRLTEERN 115
DB 1 KTIINKLFEFDIAOEENLVDAEFLKNELDVSKAQLSQDKRKRDSQATITDLPRLTEERN 60
QY 116 ATVESLQNALKAMKLTSTLKQKMFLEQRODETKQAREEHAHLCKMKTKTEQIETELLQS 175
DB 61 ATVSLSQALQKAMKLTSTLKQKMFLEQRODETKQAREEHAHLCKMKTKTEQIETELLQS 120
QY 176 QRSEVEEKIRDMGVQSAVEQLAVCYSLKREYENLKEARRATGELADRLKKDLVSSRSK 235
DB 121 QLPSEVEEKIRDMGVQSAVEQLAVCYSLKREYENLKEARRATGELADRLKKDLVSSRSK 180
QY 236 LKTIINTELDAOKLELRSKQKDLQSAQDEITSLRK 270
DB 181 LQTVISELDQAKLELRSKQKDLQSAQDEITSLRK 215

RESULT 6
US-09-052-089A-6
Sequence 6, Application US/09052089A
Patent No. 6346605
GENERAL INFORMATION:
APPLICANT: Lee, Soo Y.
Choi, Yongwon
TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
FAMILY, AND USES THEREOF
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC-compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,089A
FILING DATE: 31-Mar-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
FRAGMENT TYPE: Internal
ORIGINAL SOURCE:
ORGANISM: mouse
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-09-052-089A-6

Query Match 12.2%; Score 293; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 6.2e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LSLCTGSDFFDHSRDVAALHCGHTFHLQCLIQWFTAPSRTPCQCRIOVG 54
DB 1 LSLCTGSDFFDHSRDVAALHCGHTFHLQCLIQWFTAPSRTPCQCRIOVG 51

RESULT 7
US-09-052-089A-5
Sequence 5, Application US/09052089A
Patent No. 6346605
GENERAL INFORMATION:
APPLICANT: Lee, Soo Y.
Choi, Yongwon
TITLE OF INVENTION: SIGNAL TRANSDUCER FOR THE TNF RECEPTOR SUPER
FAMILY, AND USES THEREOF
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: David A. Jackson, Esq.
STREET: 411 Hackensack Ave, Continental Plaza, 4th
Floor
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC-compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,089A
FILING DATE: 31-Mar-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-198 CIP 1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
SEQUENCE DESCRIPTION: SEQ ID NO: 5
US-09-052-089a-5

Query Match 10.9%; Score 260; DB 4; Length 51;
Best Local Similarity 92.0%; Pred. No. 3.6e-15;
Matches 46; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 SLCTICSDPFDHSRDVAIHGHTFHLOCLTOMFETAPSTRCCPCCRQVQ 54
DB 2 ALCTICSDPFDHSRDVAAMDGHTFHLOCLTQSFETAPSTRCCPCCRQVQ 51

RESULT 8
US-08-328-254-6
Sequence 6, Application US/08328254
Patent No. 5710022

GENERAL INFORMATION:
APPLICANT: Zhu, Xueliang
APPLICANT: Lee, Wen-Hwa
TITLE OF INVENTION: A No. 5710022el Nuclear Mitotic Phosphoprotein
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA

ZIP: 92122
COUNTRY: USA

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/328,254
FILING DATE: 24-OCT-1994
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/141,239
FILING DATE: 22-OCT-1993

ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-CJ 1191
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 2482 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-328-254-6

Query Match 7.2%; Score 172.5; DB 1; Length 2482;
Best Local Similarity 24.3%; Pred. No. 1.6e-05;
Matches 74; Conservative 53; Mismatches 109; Indels 69; Gaps 10;

QY 56 KTIINKLFLDLAEEN---VLDLAEFLKNELDLSVKAOL-----SOK 93
DB 1521 KDAVENIERELQNSEQELVIIDAEKSKAEVETLKQIDEMARSLKVFELDLVTLSER 1580
QY 94 D-----REKRDQAIDTLRLDTL-----EERNATVESLONALNKAMELC 132

DB 1581 ENLTQIOEKQOLSELDKLLSSFKSLLEKEQAEIQIKESKTAVEMLONLKELNEAV 1640
QY 133 STL---KKQKKFLQEQD-----ETKQAREFAHLLKKMKMTMEIILLQSORSE----- 179
DB 1641 AALCGDOELMKATEQSLDPEIEEHQLRNIEKRLARLEADEKQOLCVLOQLKESHHAD 1700
QY 180 -----VEEMIRDMGQSAVEQOLAVYCVSLKKEYEENLKEARKATGELADRLKKDLVSSRS 234
DB 1701 LKGRVENLERELIARTNOEHAALENKSGEVEITLKAKIEGTMQSLRGLSDVYTINS 1760
QY 235 KLTLTNTELDQ-----AKTEL--RSAQKDLQADQETTSLRKSDPPGNLE-PASATNE 286
DB 1761 EKENLTFNEIQEQEIRISELTINSFENITQIEKEQEKVQKREKSSVAMELQVQLKELNE 1820

QY 287 TVSRL 291
DB 1821 RVAL 1825

RESULT 9
US-08-353-700-1
Sequence 1, Application US/08353700
Patent No. 5599919

GENERAL INFORMATION:
APPLICANT: YEN, TIMOTHY J.
APPLICANT: RATTNER, JEROME B.
TITLE OF INVENTION: NUCLEIC ACID ENCODING A
TITLE OF INVENTION: TRANSIENTLY-EXPRESSED KINETOCHORE PROTEIN,
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: DANN, DOREMAN, HERRELL AND SKILLMAN
STREET: 1601 MARKER STREET, SUITE 720
CITY: PHILADELPHIA
STATE: PA
COUNTRY: USA
ZIP: 19103-2307

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/353,700
FILING DATE: 09-DEC-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: REED, JANET E.
REGISTRATION NUMBER: 36,252
TELEPHONE: (215) 563-4100
TELEFAX: (215) 563-4044
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3248 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: HUMAN
US-08-353-700-1

Query Match 7.2%; Score 172.5; DB 1; Length 3248;
Best Local Similarity 24.3%; Pred. No. 2.4e-05;
Matches 74; Conservative 53; Mismatches 109; Indels 69; Gaps 10;

QY 56 KTIINKLFLDLAEEN---VLDLAEFLKNELDLSVKAOL-----SOK 93
DB 1521 KDAVENIERELQNSEQELVIIDAEKSKAEVETLKQIDEMARSLKVFELDLVTLSER 1580
QY 94 D-----REKRDQAIDTLRLDTL-----EERNATVESLONALNKAMELC 132

Db 2249 KDKVENLERLOMSEENOELVILDAENSKAEVETLKQIEEMARSLKIFELDLVTLRSEK 2308
QY 94 D-----REKDSOAIIIDTLRDTL-----EERNATVESIONALKAEMLC 132
Db 2309 ENLTKQIOEKOGQSELDKLLSFKSLLEEQAEOIQIEESKTAVEMLOQLKELNEAV 2368
QY 133 STL---KKOMKFLBQROD---ETKQAREAHRLCKMKTMEOQIELLOSOQSRP-----179
Db 2369 AALGDOEIMKATQSDLPPIEEHQLRNSIEKLRLARLEADEKQOLCVLOQLKESEHHAD 2428
QY 180 -----VEEMIDMGVGSAAVEQLAVYCVSLKKEYENLKEARKATGELADRLKDLVSSRS 234
Db 2429 LKRGVLENLERLEIARTNOEHAALEANSKGEVETLKAKIEGTMQSLRGLELDVVTIRS 2488
QY 235 KLTLTNLELDO----AKLEL--RSAOKDQASADOEITSLRKSDPPGNLE-PASATYNE 286
Db 2489 EKEMLTNELQEKQERISELEITNSSFENITLOEKQEKVOMKESSTAMEMLOTLKELNE 2548
QY 287 TVSRLL 291
Db 2549 RVAL 2553

RESULT 10
PCT-US95-16216-1
; Sequence 1, Application PC/TUS9516216
; GENERAL INFORMATION:
; APPLICANT: Yen, Timothy J.
; TITLE OF INVENTION: Nucleic Acid Encoding a Transiently
; TITLE OF INVENTION: Expressed Kinetochores Protein, and Methods of Use
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dann, Dorfman, Herrell and Skillman
; STREET: 1601 Market Street Suite 720
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103-2307
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/16216
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/353,700
; FILING DATE: 09-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Reed, Janet E.
; REGISTRATION NUMBER: 36,252
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 563-4100
; TELEFAX: (215) 563-4044
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3248 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOETHERICAL: NO
; ANTI-SENSE: NO
; PCT-US95-16216-1

Query Match 7.2%; Score 172.5; DB 5; Length 3248;
Best Local Similarity 24.3%; Pred. No. 2.4e-05;
Matches 74; Conservative 53; Mismatches 109; Indels 69; Gaps 10;

QY 56 KTIINKLFFDLAEOEEN-----VLDAEFLKNELDSVKAOL-----SOK 93
Db 2249 KDKVENLERLOMSEENOELVILDAENSKAEVETLKQIEEMARSLKIFELDLVTLRSEK 2308
QY 94 D-----REKDSOAIIIDTLRDTL-----EERNATVESIONALKAEMLC 132
Db 2309 ENLTKQIOEKOGQSELDKLLSFKSLLEEQAEOIQIEESKTAVEMLOQLKELNEAV 2368
QY 133 STL---KKOMKFLBQROD---ETKQAREAHRLCKMKTMEOQIELLOSOQSRP-----179
Db 2369 AALGDOEIMKATQSDLPPIEEHQLRNSIEKLRLARLEADEKQOLCVLOQLKESEHHAD 2428
QY 180 -----VEEMIDMGVGSAAVEQLAVYCVSLKKEYENLKEARKATGELADRLKDLVSSRS 234
Db 2429 LKRGVLENLERLEIARTNOEHAALEANSKGEVETLKAKIEGTMQSLRGLELDVVTIRS 2488
QY 235 KLTLTNLELDO----AKLEL--RSAOKDQASADOEITSLRKSDPPGNLE-PASATYNE 286
Db 2489 EKEMLTNELQEKQERISELEITNSSFENITLOEKQEKVOMKESSTAMEMLOTLKELNE 2548
QY 287 TVSRLL 291
Db 2549 RVAL 2553

RESULT 11
PCT-US93-03077-1
; Sequence 1, Application PC/TUS9303077
; GENERAL INFORMATION:
; APPLICANT: Board of Regents, The University of Texas System
; APPLICANT: Gaynor, Richard B.
; APPLICANT: Wu, Foon Kin
; TITLE OF INVENTION: PROTEIN CELLULAR FACTOR USEFUL FOR
; TITLE OF INVENTION: REGULATING GENE EXPRESSION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/03077
; FILING DATE: 19930331
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/862,025
; FILING DATE: April 2, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Kammerer, Patricia A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: UTPD270PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1540
; TELEFAX: 713-749-2679
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1093 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; PCT-US93-03077-1

Query Match 7.1%; Score 170; DB 5; Length 1093;

Best Local Similarity 20.2%; Pred. No. 8.4e-06;
Matches 107; Conservative 79; Mismatches 203; Indels 140; Gaps 17;

```

QY 66 LAQEEENVDAEFLKNELDVSKAQLSOKDRKRSQAIIIDRLTL---EERNATVSLQ 122
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 441 LSEKEDVCKVEFENETREKQLSLSKELAEFLNKLKEMERVESSSSSLK 500
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 123 N-----ALNKAEMLC---STLKQMK-----FLEGRQDPTKQARE 154
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 501 DEFQRIAEAEKKVQLACKERDAKKKIKNKKEELATRLNLSSETADLKEDEQRLME 560
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 155 EAHRLCKMKTMEQIELLLQSREVEEMIRDMGVGSAVEQLAVYCVSLKREYENLKEA 214
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 561 EGKRLSKQOLHNSNIIKKLRACKENENNAKL---NKKVKEEELHQLKQVIDGREEV 617
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 215 RKATGELADRLKDDVSRSKLTINTELQAKLELSAQKDLQSAQDEITSLKKSDDP 274
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 618 EKQRENIKRLNSMVEROEKDLGRLQVDMDELEKKNRSIQALDQSAVKELTDLKANAAK 677
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 275 PGNLEPASATNETVSRVLFESPAPVEMNPRLHQP-----PFGD----- 313
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 678 DSEKQEAALSRKMAK---EELSALEKAQAEARQOETLAIQVDDLALQRTQAAARK 735
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 314 -----EI-----DLNTTFDVNTPP-----TQSGSOHCPLPKL--- 341
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 736 EDYLRIHEIGELQRLQEAENNRQELSQSVSSTTRPLRQIENLQATLGQTSWEKLEKN 795
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 342 -----CLRRASPMQNVYKVKHVKSPESQSLGQ---RCVGEIDDELAG 384
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 796 LSRIGESSQTLAAAVERRAATEELLANKIQMSMESQNSLQENSRFQOALESE--- 852
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 385 AFLPLINNAVIGOKPN-----RTTAESRSSTDVVRIGFDLGRTFQI 429
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 853 -----KNRLCKLEDENNRQVLEENLKDEYVRLTEETREKKTILNSOLE---MERMAVEQ 904
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 430 PRDTTIRPVVSKAKSKQV-----RIKTVSSASQPKLDT-FIQ 470
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 905 ERKKAIFTQETIKERKRPFSVSTPTMSRSSISGVDMGLQISFLSQ 953
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 12

```

US-09-085-199b-5
; Sequence 5, Application US/09085199B
; Patent No. 6235879
; GENERAL INFORMATION:
; APPLICANT: Hayden, Michael R.
; APPLICANT: Hackam, Adigail
; APPLICANT: Huq, A.H.M. Mahbubul
; APPLICANT: Chopra, Vikramjit Singh
; APPLICANT: Kaichman, Michael
; TITLE OF INVENTION: Apoptosis Modulators That Interact with the
; TITLE OF INVENTION: Huntington's Disease Gene
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Oppedahl & Larson
; STREET: PO Box 5270
; CITY: Frisco
; STATE: CO
; COUNTRY: USA
; ZIP: 80443-5270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 Inch, 1.44 Kb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS DOS 5.0
; SOFTWARE: WordPerfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,199B
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Larson, Marina T.
; REGISTRATION NUMBER: 32038
; REFERENCE/DOCKET NUMBER: UBC-P-013052

```

TELECOMMUNICATION INFORMATION:

```

; TELEPHONE: (970) 668-2050
; TELEFAX: (970) 668-2052
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1090
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: no
; ORIGINAL SOURCE:
; ORGANISM: human
; FEATURE:
; OTHER INFORMATION: Huntington-interacting protein
; US-09-085-199b-5

```

Query Match

7.1%; Score 169; DB 4; Length 1090;

Best Local Similarity 23.0%; Pred. No. 1e-05;
Matches 110; Conservative 94; Mismatches 192; Indels 82; Gaps 23;

```

QY 50 RIQVCKKTIINKLEFPIAOE---EENVDAEFLKNELDVSKAQLSOKDRKRSQAIIID 105
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 453 RVYLQTLGHVSELEADLAEOHLRQQAADCEFLRAELDELIRQREDTERAQR-SLSEIE 511
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 106 TLRLDLEERNATVESLQNAL--NKAEML--CSTLKQMKMLEQRO---DETQAREAH 157
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 512 RKAQANDQRTSKLEKSELYONHADLRLKNAEYTKOVSNARQAOVDLERKKLEDSLE 571
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 158 RL--CKMKTMEQIELLLQSREVEEMIRDMGVGSAVE-----QLAVYCVSLKREY 208
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 572 RISDQGRKTOEQL-VLESLKQELATSQRELQYLGQSLFSAQSEANMAAEFALKEKR 630
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 209 ENLEKARKATGELADRLKDDVSRSKLTINTEL-----DQAKLELSAQKDLQSAQDE 263
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 631 DSLVSGAHRREELSAULRKLQDTQLKLASTEESMCOLAKDQRMMLLVGSKR---AAEOV 687
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 264 ITSLRKSSDDPP-----GNLEPASATNETVSRVLFESP-----APVEMNPRLHQP 311
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 688 IQDALNOLDEPPLISCSGADHLSTVTSISSCIEQLKSNQYLAQPEDISGLHSITL 747
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 312 -----GDEIDLNTFEDVNTPTQT-SSGSHC-----LPKLCLEARRS-PMQ 351
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 748 LAHLTSDALHAGATCTCARPEPADSLTEACKQYGRETLATLAELEGSLENNDSITAMR 807
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 352 NVLKKVHKVSKPESQSLG---GORCVGEL-DEELAGAFPLFINNAVIGOKPNRTTAES 407
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 808 NCLSKIRAIK--EBLLPRGLDIOKEELGLDLDKEMA-ATSAIETAT---ARIEMLSKS 861
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 408 RSSSTDVVRIGFDG--LGRTFQIPRDTTIRPVVSKAKSKQKVRKITYSSASQPK 463
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 862 RAGDTGVKLEVERILLCCTSLMOAIOVLIV-----ASKDLQREIVESGRGTASPK 912
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 13

```

US-08-533-306A-2
; Sequence 2, Application US/08533306A
; Patent No. 5837457
; GENERAL INFORMATION:
; APPLICANT: Liu, Pu
; APPLICANT: Collins, Francis S.
; APPLICANT: Siciliano, Michael J.
; APPLICANT: Claxton, David
; TITLE OF INVENTION: Markers for Detection of Chromosome 16
; TITLE OF INVENTION: Rearrangements
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: USA
; ZIP: 48303

```

```

? SOFTWARE: Patentin Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/742,923A
? FILING DATE: No. 5669611member 1, 1996
? CLASSIFICATION: 435
? ATTORNEY/AGENT INFORMATION:
? NAME: Smith, Deann F.
? REGISTRATION NUMBER: 36683
? REFERENCE/DOCKET NUMBER: 2115-00869DVC
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (810) 641-1600
? TELEFAX: (810) 641-0270
? INFORMATION FOR SEQ ID NO: 2:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 576 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? OS-08-742-923A-2

```

Query Match	7.0%	Score 168.5	DB 2	Length 576
Best Local Similarity	23.8%	Pred. No. 4.6e-06		
Matches 65; Conservative	54;	Mismatches 99;	Indels 55;	Gaps 10;

[illegible]

RESULT 15
US-08-533-306A-6
Sequence 6, Application US/08533306A
Patent No. 5837457
GENERAL INFORMATION:
APPLICANT: Liu, Pu
APPLICANT: Collins, Francis S.
APPLICANT: Siciliano, Michael J.
APPLICANT: Claxton, David
TITLE OF INVENTION: Markers for Detection of Chromosome 16
TITLE OF INVENTION: Rearrangements
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
STREET: P.O. Box 828
CITY: Bloomfield Hills
STATE: MI
COUNTRY: USA
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/533,306A
FILING DATE: September 25, 1995

; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 885 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-533-306A-4

Query Match 7.0%; Score 168.5; DB 2; Length 885;
Best Local Similarity 23.8%; Pred. No. 8.4e-06;
Matches 65; Conservative 54; Mismatches 99; Indels 55; Gaps 10;

QY 65 DLAGEENVLDAEFLKNEELSVKQALSQK-----DREKRDQAIIIDTLRDLEE 113
DB 635 DLMQLEDLAAERARQADLEKEBELAEELASSISGRNALODEKRLLEARLAQLEEELE 694
QY 114 RNATVESLQNALNK-----AEMLC-----STLKKQMKFLEORODETKQAREEARL--- 159
DB 695 EOGNMEAMSDVRKATQQAEDLSNELATERSTAOKNESARQOLERQNKELRSKLHEMGA 754
QY 160 -KCKMK-TMEQIELLLQSRSEVEEMIRDMGVGSAVEQALVAVCVSLKKEYENLKEARKA 217
DB 755 VKSRFKSTIALAEAKIAQLEQVEQEARERK---QAATKSLKQKDKKLEILLQVEDERK- 810
QY 218 TGLADRLKDLVSSRSKLTINTLQDAKLELSAQKDLQSAQDEITSLRKSDDEPPGN 277
DB 811 ---MAEQYKEQAEKGNARVQLKRLQLEAEER-----SQRINANKRLQ---RE 853
QY 278 LEPASATNETVSRVLFESPAPVEMNPRLLHQP 310
DB 854 LDEATESNEAMGR-----EVNALKSKLRGPP 879

RESULT 18
US-08-742-923A-4
; Sequence 4, Application US/08742923A
; Patent No. 5869611
; GENERAL INFORMATION:
; APPLICANT: Liu, Pu
; APPLICANT: Collins, Francis S.
; APPLICANT: Siciliano, Michael J.
; APPLICANT: Claxton, David
; TITLE OF INVENTION: Markers for Detection of Chromosome 16
; TITLE OF INVENTION: Rearrangements
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Bloomfield Hills
; STATE: MI
; COUNTRY: USA
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/742,923A
; FILING DATE: No. 5869611ember 1, 1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Deann F.
; REGISTRATION NUMBER: 36683
; REFERENCE/DOCKET NUMBER: 2115-00869DVC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (810) 641-1600
; TELEFAX: (810) 641-0270
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 885 amino acids
; TYPE: amino acid

; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-742-923A-4

Query Match 7.0%; Score 168.5; DB 2; Length 885;
Best Local Similarity 23.8%; Pred. No. 8.4e-06;
Matches 65; Conservative 54; Mismatches 99; Indels 55; Gaps 10;

QY 65 DLAGEENVLDAEFLKNEELSVKQALSQK-----DREKRDQAIIIDTLRDLEE 113
DB 635 DLMQLEDLAAERARQADLEKEBELAEELASSISGRNALODEKRLLEARLAQLEEELE 694
QY 114 RNATVESLQNALNK-----AEMLC-----STLKKQMKFLEORODETKQAREEARL--- 159
DB 695 EOGNMEAMSDVRKATQQAEDLSNELATERSTAOKNESARQOLERQNKELRSKLHEMGA 754
QY 160 -KCKMK-TMEQIELLLQSRSEVEEMIRDMGVGSAVEQALVAVCVSLKKEYENLKEARKA 217
DB 755 VKSRFKSTIALAEAKIAQLEQVEQEARERK---QAATKSLKQKDKKLEILLQVEDERK- 810
QY 218 TGLADRLKDLVSSRSKLTINTLQDAKLELSAQKDLQSAQDEITSLRKSDDEPPGN 277
DB 811 ---MAEQYKEQAEKGNARVQLKRLQLEAEER-----SQRINANKRLQ---RE 853
QY 278 LEPASATNETVSRVLFESPAPVEMNPRLLHQP 310
DB 854 LDEATESNEAMGR-----EVNALKSKLRGPP 879

RESULT 19
US-09-085-199B-4
; Sequence 4, Application US/09085199B
; Patent No. 6235879
; GENERAL INFORMATION:
; APPLICANT: Hayden, Michael R.
; APPLICANT: Hackam, Adigail
; APPLICANT: Hug, A.H.M. Mahubul
; APPLICANT: Chopra, Vikramjit Singh
; APPLICANT: Kalchman, Michael
; TITLE OF INVENTION: Apoptosis Modulators That Interact with the
; TITLE OF INVENTION: Huntington's Disease Gene
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Opedahl & Larson
; STREET: PO Box 5270
; CITY: Frisco
; STATE: CO
; COUNTRY: USA
; ZIP: 80443-5270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Kb storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS DOS 5.0
; SOFTWARE: WordPerfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,199B
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Larson, Marina T.
; REGISTRATION NUMBER: 32038
; REFERENCE/DOCKET NUMBER: UBC-P-013052
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (970) 668-2052
; TELEFAX: (970) 668-2052
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 914
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: no

```

; ORIGINAL SOURCE:
; ORGANISM: human
; FEATURE: Huntington-interacting protein
US-09-085-199B-4

```

7.08; Score 166.5; DB 4; Length 914;

Best Local Similarity	24.0%;	Pred. NO. 1.3e-05;
Matches	95;	Conservative 79; Mismatches 153; Indels 69; Gaps 19;

```

0Y 50 R10GKKTIIKKLFFEDLAE-----EENVLAEFLNKLSIVKML0SKDKEKDSOAIID 105
Db 277 RVVLQTLKGVSELADLAEQOHLRQQAADCEFLRAELDELRRORRETEKAQR-SISEIE 335
QY 106 TLRDTELEBNATVESLONAL--NKAEMI--CSTLKKOMKLEPRO-----DETROAREAH 157
Db 336 RKAQNEGRYSKLKEKXSELVQNNADLLRKNAEVTKQVSMARQAQVDLEREKKELEDSE 395
QY 158 RL--KCKAKTIEQIELLOSORSVEVEEMKIRDMGVGSAYE-----QLAVYCVSLKKEY 208
Db 396 RISDGGOKRKTQEOLE-VLESIKOLEIGTSORELQVLOGLSELSAOSEANMAAEFAELER 454
QY 209 ENLKEARATQELADRLKXDDIVYSRKYKLTNTEL-----DQAKTELRSAOKDLOSDOE 263
Db 455 DSLVSGAANHREBELSALKELEDTQTLKASTESBWCOLADQRRMLLVGSRK--AAQV 511
QY 264 ITSLLRKSADDP-----GNLEPASATNETSRLFEESP-----APEVMANRPLHPPF 311
Db 512 IODALNOLEEPFLPSGASADHLSTYTSISSCIEQLEKSMQYLAEPEDISGLSHITL 571
QY 312 ----GDEIDNTTTFDVNTPTQTR--SGSQHC-----LPKKLCLEPARS--PMQ 351
Db 572 LAHLTSDAIIAGATTTCLRAPPEPADSLTEACKOYGRETLAVIASLEEGSLENNADSTAMR 631
QY 352 NVLKKVHKVSKPESQSLG---GQRQVGL-DEBLA 383
Db 632 NCLSKTKAIG--ELLPRGDIKIDKEELGDIADVKEMA 665

```

RESULT 20
US-08-938-105-3
Sequence 3, Application US/08938105
Patent No. 6353151
GENERAL INFORMATION:
APPLICANT: Leinwand, Leslie A.
APPLICANT: Vikstrom, Karen L.
TITLE OF INVENTION: 'TRANSGENIC MODEL FOR HEART FAILURE
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln St., Suite 3500
CITY: Denver
STATE: CO
COUNTRY: U.S.A.
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/938,105
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Crook, Wanneil M.
REGISTRATION NUMBER: 31,071
REFERENCE/DOCKET NUMBER: 3595-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:

```

; LENGTH: 1886 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-938-105-3

```

6.7%; Score 160; DB 4; Length 1886;

Best Local Similarity 19.3%; Pred. No. 0.00012;
Matches 80; Conservative 80; Mismatches 160; Indels 94; Gaps 12;

```

Qy 76 AEFKNELDSYKAKLOSKOEKERSOAIIDTLRDLEENNAVESLOXNAN----- 126
Db 1171 SEF-KLELDVTSHMEIITAKANLEKVSRTLEDOANEYKAKLEAQSLNDFTTORAKL 1229
Qy 127 -----KAEMLCSTLKQMKFLBODEPDKQAREE-----AHLK-----C 161
Db 1230 QTEGELARQLEKEKALIMQUTRGKLSLTYQOMEDKLKQLEEGSKAKMALAHALQSAHDC 1289
Qy 162 -----KMKTMEOIELLQSORSEV-----BEMIRDMGVC 190
Db 1290 DLEREOYEEMEAEKAELOVRLKANSSEVQWMPRTYETDAIQRTETELEAKKALQARODA 1349
Qy 191 QSAVEQOLAVYVSKK-----EYENLKARKATGELADRLKQULVSRSKLTJLNETL 243
Db 1350 EEAEEAVANAKSSLEKTKHRLQNEIDELIADVERSMAAALADKKQRNDRKTLAEWKQY 1409
Qy 244 DOAKLELRSQAOKDQOSADOEITSLRRKSDPPGNLEPASATETVYSRLVFESPAVEEMN 303
Db 1410 EESOSELESSQKKAERSLSTELFKTKNAYEESLHELTFRKRECKNNIQOEISDQTEBQSGG 1469
Qy 304 PRUHQPPGDEID-LNTTFDVNTPPTQSGQHCLPKKLCLEBANSPMONVLYKKVHKYK 362
Db 1470 KNVH-----ELEKIRKQLEVEKLELOSA-----LEBAVRSSTHEGKILTRQOL 1512
Qy 363 PESQSLSGQRCQVGELEDELAGAPFLFIRNAVJGOKQPNRTTAASSSSTDVVRI 416
Db 1513 EFNQJKAETIEKLEKDEMEQARHNHLR--VDQSJQTS-LDAETRSNEALRY 1563

```

```

RESULT 21
US-09-310-187A-1
/ Sequence 1, Application US/09310187A
/ Patent No. 6358751
/ GENERAL INFORMATION:
/ APPLICANT: Benichou, Gilles
/ APPLICANT: Fedoseyeva, Eugenia
/ TITLE OF INVENTION: Involvement of Autoam
/ TITLE OF INVENTION: Craft Rejection
/ FILE REFERENCE: UCSF-090
/ CURRENT APPLICATION NUMBER: US/09/310.187A
/ CURRENT FILING DATE: 1999-05-12
/ NUMBER OF SEQ ID NOS: 3
/ SOFTWARE: FastSeq for Windows Version 4.0.0
/ SEQ ID NO 1
/ LENGTH: 1939
/ TYPE: .prt
/ ORGANISM: Homo sapiens
US-09-310-187A-1

```

6.78; Score 160; DB 4; Length 1939;

Best Local Similarity 20.7%; Pred. No. 0.00033;
Matches 73; Conservative 79; Mismatches 161; Indels 40; Gaps 9;

Qy	79	LNKNEIDSVKAAOLSKODKRRKRSQAIDTLEPDLLENNAAVESIOJNLANKAEMLGCTSIKK	138
Db	1289	LKRQEEKFKALLISQTKRKLSYTOQMEDLKRQLEEBKAKNALAHLOSARDCLLRQ	1348
Qy	139	MKLEQRODETRKQAREAHRLKCKMKMTMEDIEILL-----LOSOREVEEMIRDMGVGOSA	193
Db	1349	YEELTEAAEALQRYVLSKNSNEVAAQWRKYTYDAIQRTTELEEKKKLAARLQD---AAEA	1405

```

OY 194 VEOIAYVCSYJK-----EYENLKEARRATGELADRLKQDVSRSKTLNTELDOA 246
    | | | | |
Db 1406 VEAVMACSSLEKTKHRLONEIEDLWIVDYERSAAAAALDDKORNDKILAEWKQYEE5 14655
    | | | | |
OY 247 KLEIUSAQKDLQASADEITSILARRKSDPPNLEPASATNETYSRLVFESPAVEEMXNRL 306
    | | | | |
Db 1466 OSELESSQKEARSLSTELFKLNAVEESLEHLETFKREXKNLQOFEISDITBGLGCKNV 15255
    | | | | |
OY 307 HQPFGGEID-LNTTEPVNTPPROTGSQHCPLKCLKEBRASPMONWLKVKHYAKSES 365
    | | | | |
Db 1526 H-----ELEKVRKOLEVETKELQSA-----LEEAASLSHEHGKILRLAQLEFN 15685
    | | | | |
OY 366 QLSLGGORCGEIDELTAGAFPLFIN--AVLGQKOPNPTTAESSSTGVNVI 416
    | | | | |
Db 1569 OIKAEIERKLAEDDEMEQA-----KRNHORVVSIDTSS-LDTESTRNNEVLNV 1616
    | | | | |

```

```

: RESULT 22
: US-08-095-737-2
: Sequence 2, Application US/08095737
: Patent No. 5487979
: GENERAL INFORMATION:
: APPLICANT: DiFiore, Pier P
: APPLICANT: Fazio, Francesca
: TITLE OF INVENTION: A Substrate for the Epidermal Growth
: TITLE OF INVENTION: Factor Receptor Kinase
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Knobb, Martens, Olson & Bear
: STREET: 620 Newport Center Drive, Sixteenth Floor
: CITY: Newport Beach
: STATE: California
: COUNTRY: United States of America
: ZIP: 92660
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/095.737
: FILING DATE: 19930722
: CLASSIFICATION: 530
: ATTORNEY/AGENT INFORMATION:
: NAME: Israelsen, Ned A
: REGISTRATION NUMBER: 29,655
: REFERENCE/DOCKET NUMBER: NIH060.001A
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (619) 235-8550
: TELEFAX: (619) 235-0176
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 896 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-095-737-2

```

Query Match	6.7%;	Score 159.5;	DB: 1;	Length 896;
Best Local Similarity	23.58;	Pred. No. 4.8e-05;		
Matches	70;	Conservative 43;	Mismatches 88;	Indels 97;
			Gaps 11;	

QY	3	ILSLCTICSDPFHDSRDVAATHCGTFFHL--QCLLQWFE---TAPSRKCPQCRQYGVCK	56
		: : : : : : : :	
Db	265	IWSLCD-TKDCGKSLSKDFAL---AFHLISOKLITKIGDIPVLTPEMIPISDRASLQKN	319
		: : : : : : : :	
QY	57	TIINKLFEDLQAEENNVDAEFLKNEIDLSVKAQLSQKREKRDSQAIIIDLTDLTEERNA	116
		: : : : : :	
Db	320	II-----GSSPVADFSAIK-ELDTLNNEIIDLOREKNNVQDLKEKEDITLQRTS	368
		: : : : : :	
QY	117	TVESIQNALNKAEMCLSTLTKQMKFLBDRQDETQKAREARHKLKCKMMTMEIILLQSO	176
		: : : : : : : : :	

```

Db      369  EVQDQDQDEV-----QRENTNLOK-----LQAQ 360
Oy      177  RSEVEEMIRDMGVOSAVEQJLAVYCVSLKKREYKLTKEARKATGE---LADRLKDLVSSR 233
Db      391  KOQVQELDELDEQKQALE-----BQKVEYRKCKAEQALJISLKAELTSQE 437
Oy      234  SKKLTLNTLQDQA-----KLEIRSAQKQDQSADEQTSLSRK 270
Db      438  SOISYEEELKKAEBELSLROQETAELEBSVESKQALEPQDQHLQDSQOELISSMOK 495

```

```

1      RESULT 23
2      US-08-480-145-2
3      Sequence 2, Application US/08480145
4      Patent No. 5717067
5      GENERAL INFORMATION:
6      APPLICANT: Difiore, Pier P
7      APPLICANT: Fazioli, Francesca
8      TITLE OF INVENTION: A Substrate for the Epidermal Growth
9      TITLE OF INVENTION: Factor Receptor Kinase
10     NUMBER OF SEQUENCES: 4
11     CORRESPONDENCE ADDRESS:
12     ADDRESSEE: Knobbe, Martens, Olson & Bear
13     STREET: 620 Newport Center Drive, Sixteenth Floor
14     CITY: Newport Beach
15     STATE: California
16     COUNTRY: United States of America
17     ZIP: 92660
18     COMPUTER READABLE FORM:
19     MEDIUM TYPE: Floppy disk
20     COMPUTER: IBM PC compatible
21     OPERATING SYSTEM: PC-DOS/MS-DOS
22     SOFTWARE: PatentIn Release #1.0, Version #1.25
23     CURRENT APPLICATION DATA:
24     APPLICATION NUMBER: US/08/480,145
25     FILING DATE: 07-JUN-1995
26     CLASSIFICATION: 530
27     PRIOR APPLICATION DATA:
28     APPLICATION NUMBER: US 08/095,737
29     FILING DATE: 22-JUL-1993
30     ATTORNEY/AGENT INFORMATION:
31     NAME: Israelson, Ned A
32     REGISTRATION NUMBER: 29,655
33     REFERENCE/DOCKET NUMBER: NH060.001A
34     TELECOMMUNICATION INFORMATION:
35     TELEPHONE: (619) 235-8550
36     TELEFAX: (619) 235-0176
37     INFORMATION FOR SEQ ID NO: 2:
38     SEQUENCE CHARACTERISTICS:
39     LENGTH: 896 amino acids
40     TYPE: amino acid
41     TOPOLOGY: Linear
42     MOLECULE TYPE: protein
43     US-08-480-145-2

```

	Query Match	6.7%	Score 159.5;	DB 1:	Length 896;	
	Similarity	23.5%;	Pred. No. 4.8e-05;			
	Matches 70;	Conservative 43;	Mismatches 86;	Indels 97;	Gaps 11;	
OY	3 ILILSTICSDPFDHSDVAALIHCHTFPHL--OCLLOWEE---TAPSRTPCQRIQVCKK 56					
Db	265 IWSLCD-TKDGCKSLKGFAL---AFHLISQKLKLGIDPVLHPLEMPSPDSASLQKN 319					
OY	57 TIINKLFPLDLAEEENNVLDAEFLKNEEDSVKAQLSOKDKREKDSQAIIIDLPTLEERRA 116					
Db	320 II-----GSSPVADFSAIK-ELDTLNNEIYDLOREKNNNVEDJKEKEDTIKORTS 368					
OY	117 IVESLONALNKAEMCLTKLKQMKPLEODRODTPQAREBAHRLLCKMKTMEQIELLSQ 176					
Db	369 EVQDDADEV-----QRENINLQK-----LDAQ 390					
OY	177 RSEVEEMI RDGVGSAAVEOLAIVVCYSKKKEYENLKEARKATGE---LADRLLKNDLVSSR 233					

Db 391 KQVOELLDELDEQKAOLE-----EOLKEVRKKCAEPAQLISSIKAEILTSQE 437
QY 234 SKLTLNTELDQA-----KLELRSAQKDLQASADOEITSLRRK 270
Db 438 SQISTYEBELAKAREELSRLOQETAELEESVESGKAQLEPLQHLQDSQOEITSSMOK 495

RESULT 24

US-08-477-389-2
; Sequence 2, Application US/08477389
; Patent No. 5872219
; GENERAL INFORMATION:
; APPLICANT: DiFiore, Pier P
; APPLICANT: Fazioli, Francesca
; TITLE OF INVENTION: A Substrate for the Epidermal Growth
; TITLE OF INVENTION: Factor Receptor Kinase
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson & Bear
; STREET: 620 Newport Center Drive, Sixteenth Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: United States of America
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,389
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/095,737
; FILING DATE: 22-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelson, Ned A
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH060.001A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 896 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-389-2

Query Match 6.7%; Score 159.5; DB 2; Length 896;
Best Local Similarity 23.5%; Pred. No. 4.8e-05;
Matches 70; Conservative 43; Mismatches 88; Indels 97; Gaps 11;

QY 3 ILSLCTICSDPEFHSRVAIAHCHGTHPL--QCLIQME---TAPSTTCQCRQYQKK 56
Db 265 IWSLCD-TRDGLSKDQFAL---AFHLISQKLIKIDPHTLVPEMIPSPDRASLOKN 319
QY 57 TIINKLFEDLAQEEENVLDAEFLKNELDSVKAOLSOQKDRKDSQAIIIDTLRDTLEENNA 116
Db 320 IY-----GSSPVADFSAIK-ELDTLNNEIYDLQREKNVNEQDIKEKEDITIKQRTS 368
QY 117 TVESIQLNALNKAEMLCSTLKRQMKFLQRODETRQAREEAHRLCKMKMTMEQIELLLOSQ 176
Db 369 EVOQLQDEV-----QRENTNLQK-----LQAQ 390
QY 177 RSEYBEMRDMGVGQSAVEQLAVYCVSLKKEYENIKERKATGE---LADRLKDKLVSSR 233
Db 391 KQVOELLDELDEQKAOLE-----EOLKEVRKKCAEPAQLISSIKAEILTSQE 437

QY 234 SKLTLNTELDQA-----KLELRSAQKDLQASADOEITSLRRK 270
Db 438 SQISTYEBELAKAREELSRLOQETAELEESVESGKAQLEPLQHLQDSQOEITSSMOK 495

RESULT 25

PCT-US93-03077-3
; Sequence 3, Application PC/TUS9303077
; GENERAL INFORMATION:
; APPLICANT: Board of Regents, The University of Texas System
; APPLICANT: Gaynor, Richard B.
; APPLICANT: Wu, Foon Kin
; TITLE OF INVENTION: PROTEIN CELLULAR FACTOR USEFUL FOR
; TITLE OF INVENTION: REGULATING GENE EXPRESSION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/03077
; FILING DATE: 19930331
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/862,025
; FILING DATE: April 2, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Kammerer, Patricia A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: UTPD270PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1540
; TELEFAX: 713-749-2679
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 414 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; PCT-US93-03077-3

Query Match 6.6%; Score 158.5; DB 5; Length 414;
Best Local Similarity 18.0%; Pred. No. 2e-05;
Matches 68; Conservative 73; Mismatches 142; Indels 95; Gaps 8;

QY 66 LAQEEENVLDAEFLKNELDSVKAOLSOQKDRKDSQAIIIDTLRDTL---EERNATVESLQ 122
Db 5 LSEKEDVCKTVEFLNEKLEKREQLDLSLSEKALLEAFDNLKDEMPFVKRESSISLK 64
QY 123 N-----ALNKAEMLC---STLKRQMK-----FLEQRQDETRQARE 154
Db 65 DEFQRIAEAKKYQLACKERDAKKEIKNIKEELATRLNSSETADLKEKDEQIRGLME 124
QY 155 EAHRLCKMKMTMEQIELLQSORSEVEEMIDMGVQSAVEQLAVYCVSLKKEYENIKEA 214
Db 125 EGEKLSKOQLHNSNLIKRLAKDKENEMVAKL---NKKVKELEBELOHLKQVLDGKEEV 181
QY 215 RKATGELADRLKDKLVSSRSKLTLNTELDQAKLELSAQKDLQASADOEITSLKSSDDP 274
Db 182 EKQRENIKIKLINSVVERQEKDLGRLOYMDLEBKRNRSIQALDSAYKELTDLKANAAK 241
QY 275 PGNLEPASATNTEVSRVLFESPAVPEMMNPRLHQPPFQDEIDLNTTPTVNVNPPQTSGSQ 334

```

Db      242 DSEAQEAALSREM----- 254
Oy      335 HCLPKKLCLEBARSPMQLKVKHVKSPESQ---LSIGGRCVGELEDELGAFFLPIR 391
Db      255 -----KAKEELSALEKAEQEAHQOQETTAIYQDULALQRTQEAARREDEYLR 304
Oy      392 NAVLGQKQPNRTAESRS 409
Db      305 HEI-GELOQRLOEAENRN 321

```

```

RESULT 26
US-09-541-782-2
; Sequence 2, Application US/09541782
; Patent No. 6284480
; GENERAL INFORMATION:
; APPLICANT: NISLOW, COREY
; APPLICANT: Sakowicz, Roman
; APPLICANT: Beraud, Christophe
; TITLE OF INVENTION: Antifungal Assay
; FILE REFERENCE: 1015
; CURRENT APPLICATION NUMBER: US/09/541,782
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1184
; TYPE: PRF
; ORGANISM: A. nidulans
US-09-541-782-2

```

```

Query Match          6.6%; Score 157; DB 4; Length 1184;
Best Local Similarity 19.7%; Pred. No. 0.00011;
Matches 97; Conservative 88; Mismatches 194; Indels 114; Gaps 16;

```

```

Oy      38 FETAPSRTPCPOCRIOVGKRTIINKLFPDLAQEENVDLAEFLKMLDSVK-----AQ 89
Db      411 FRANKIRKPKQINSTMPKMTLL-----REFTAEIKMLKMLLIRHRNGVYSVE 460
Oy      90 LQDKDREKRDQAIIIDTLRLTEERNATVESIQNALNKAEMCSLTKQMKFLEORDET 149
Db      461 SYEEKMKMENESRRIIS-----EEOBKAIESMESSLRKHVOELLTLTSKFNDLKKNDDT 514
Oy      150 KQAREBARLCKMKKTMEQIELLOSORSEVE-----MTRDMGVG-----Q 191
Db      515 LAA-----LCTNDVYLQDIDIVLQNTQRAQLEEBEMLRCANEETBHQLDQVGKGLISTLG 568
Oy      192 SAVQQLAVYCVSLKKEYE---NLKARKATGELADRLK----- 227
Db      569 QTVEDINSLOSKLRKALDLATNMLMRASSTEVSDYTKRIDQRYEAFQTHAKLETTS 628
Oy      228 -----DLVSSRSKLTLTLELD---QAKLELSAQKQDOSADQETSLSRKS 271
Db      629 VKVNEFIATEISNERTSDLSSEYNRSIDAACNNAKAETSSAHEDMNNVLEIKDLREEV 688
Oy      272 DDPGNLEPASATNETYSRLVFESAPAYEMNPRLOHPFQDEIDLTNTTFDVNTPPTQTS 331
Db      689 KSKVG--EGLGLSAAAAARISEEVIQFTQHSQSLHTSFNNLGDLSKIFE-----T 738
Oy      332 GSOGLCPKLCLEBARSPMQLKVKHVKSPESQ---LSIGGRCVGELEDELGAFFLPIR 391
Db      739 MATHLSEKKNINLRALQSSNQNITETTKASAHLAQ-AIEEBHVAALAEKREL----- 792
Oy      388 LFINNAVIGQKQPNRTAESRSSTDVYRIGFDGLG---GRTKFTQPRDTTIIIRPVV-V 441
Db      793 LMSQIKALVEESROKQFARLAKIDGVRTETISASGDMLEQATQGHDRQIDEMWVFKSEQFA 852
Oy      442 KSKAKSKQKVRIR 454
Db      853 KDVNASKDEIRTK 865

```

```

RESULT 27
US-08-795-475-6
; Sequence 6, Application US/08795475
; Patent No. 5965390
; GENERAL INFORMATION:
; APPLICANT: Bjvick, Lars
; APPLICANT: Sjøvding, Ulf
; TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,475
; FILING DATE: 11-FEB-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mcmasters, David D.
; REGISTRATION NUMBER: 33,963
; REFERENCE/DOCKET NUMBER: 100084.402D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SRO ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 443 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-795-475-6

```

```

Query Match          6.4%; Score 153.5; DB 2; Length 443;
Best Local Similarity 23.0%; Pred. No. 5.7e-05;
Matches 59; Conservative 55; Mismatches 123; Indels 19; Gaps 7;

```

```

Oy      64 FDLAQEENVDLAEFLKMLDSVKAQLSQK-DREKRSQAIIIDTLRLTEERNATVESIQ 122
Db      78 YDLAKESTS-WDRORLEKELEKKEALELAIQASRDVHR-ATALEKELEKKEKRALBELAI 135
Oy      123 NALNKAEMCSLTKQMKFLEORDETQKAREEABRLCKMKKTMEQIELLOSORSEVEE 182
Db      136 DQASQDVRANVLEKELETTITREOEINRNLLGNA-KLELDLQSSKEQOLTEKKALEEEK 194
Oy      183 MI-----RDMGVGSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKDLVSSR 233
Db      195 QDSASRQSLRDLQASBEAKQYQEKDLANTALDELKQEDKQISDASRQRLRRDLQASR 254
Oy      234 SKLTTLNTELDQAKLELSAQKQDOSADQETSLSRKSQ-DPPGNLEPASATNETYSRLV 292
Db      255 EAKQVEKDLANTLAEIDLVKYEKQISDASRQRLRDLQASREAKQVEKALEEANSXL- 313
Oy      293 FESAPAYEMNPRLOH 308
Db      314 ----AALEKLNKELEE 325

```

```

RESULT 28
US-09-104-324B-4
; Sequence 4, Application US/09104324B
; Patent No. 6232460
; GENERAL INFORMATION:
; APPLICANT: T recl, Ozlem, Sahin, Ugur; Pfreundschuh, Michael

```

;; TITLE OF INVENTION: Methods For Diagnosis And Treating Cancers,
;; TITLE OF INVENTION: And Methods For Identifying Pathogenic Markers In A Sample Of
;; TITLE OF INVENTION: No. 6232460mal Cells
;; NUMBER OF SEQUENCES: 4
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Fulbright & Jaworski LLP
;; STREET: 666 Fifth Avenue
;; CITY: New York City
;; STATE: New York
;; ZIP: 10103
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
;; COMPUTER: IBM
;; OPERATING SYSTEM: PC-DOS
;; SOFTWARE: Wordperfect
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/104,324B
;; FILING DATE: 25-June-1998
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/892,702
;; FILING DATE: 15-July-1997
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Hanson, No. 6232460man D.
;; REGISTRATION NUMBER: 30,946
;; REFERENCE/DOCKET NUMBER: LUD 5491
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 318-3000
;; TELEFAX: (212) 752-5958
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 976 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;;
;; US-09-104-324B-4

Query Match 6.4%; Score 153.5; DB 4; Length 976;

Best Local Similarity 21.7%; Pred. No. 0.00017;
Matches 80; Conservative 66; Mismatches 142; Indels 79; Gaps 12;

QY 65 DLAGEENVLDADFLKLN-ELDSVKAOLSOQKRE-KRDSQAIIIDTLRDTLEERNATVESIQ 122
DB 501 DLKTELEN---EKTKMTLELHSHCNKLSLENKELTQESDMLTELKNOQEDINNKKQEE 556
QY 123 NALKKAEMLCSTLKKQKMFLEQRODETQOAREEAHRLKCKKKTMEQ---TELLLOSORS 178
DB 557 RMLQOIEMLQETETQLRNELETVREELKQKRD---VCKSLDKSEENCNINLRKOVENK 613
QY 179 EEEEM-----IRDMGOGSAVEOLAVVCVSLKKEVENLKFAKATGELADRLKKDLVSS 232
DB 614 YIEELOQENKALKKGAES--KOLNVEIKLVNKLLELESACKQFGEITDTYQKEIEDK 671
QY 233 RSKLTINTELDOAKL---ELRSAOKDL----- 257
DB 672 KISEENLEEEVAKKAVLADEAVLKQKEIDKRCQKIAEMVALMEKHKQYKIIIEERSE 731
QY 258 ----QSADQETSLRKSDDPRGN-----LEPASITNETVSLVESPAPVEMM 302
DB 732 LGLYKSKQEOSSLRASLEIELSNLKAELLVKKQLEIEEREKEKLRKAEAKENTATLEK 791
QY 303 NPLRHQPFQGEIDLNTFFDVTPTQF-----SGSQHCLRK---KLCLEKARSPMQNVL 354
DB 792 KDKTQTFLLTPELTKWLDKSAVPSVSRNFTSVDHGISKDKRDYIMTSAKNLTSTPL 851
QY 355 KKVHKVSKP 363
DB 852 PKATVTKP 860

RESULT 29
US-08-466-390-4
; Sequence 4, Application US/08466390

;; Patent No. 5686562
;; GENERAL INFORMATION:
;; APPLICANT: TONKATLY, GARY
;; APPLICANT: LIGARD, GRAHAM P
;; TITLE OF INVENTION: NOVEL MALIGNANT CELL TYPE MARKERS OF THE
;; TITLE OF INVENTION: INTERIOR NUCLEAR MATRIX
;; NUMBER OF SEQUENCES: 6
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: TESTA, HURWITZ & THIBEAULT
;; STREET: 125 HIGH STREET
;; CITY: BOSTON
;; STATE: MA
;; COUNTRY: USA
;; ZIP: 02110
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/466,390
;; FILING DATE: 06-JUN-1995
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: PITCHER ESO, EDMUND R
;; REGISTRATION NUMBER: 27,829
;; REFERENCE/DOCKET NUMBER: MTP-013
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 248-7000
;; TELEFAX: (617) 248-7100
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2101 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;;
;; US-08-466-390-4

Query Match 6.4%; Score 152.5; DB 1; Length 2101;

Best Local Similarity 21.3%; Pred. No. 0.00061;
Matches 107; Conservative 78; Mismatches 213; Indels 105; Gaps 21;

QY 44 RTCPQCRQI---VGKTIINKLFFDLAQBENY-----LDAEFLKNELDVSKAOLSOQK 93
DB 1421 RTAQOLREKASVYEQLSMLKKAHGLAEENRGSGERANLGRQFLVLDQAREKIVQEL 1460
QY 94 ----DREKRDSQAIIIDTLRDTLEERNATVESLONALNKAEM-LCSTLKKQKMFLEQROD 147
DB 1481 AAVRADAEIR-----LAEVQREAOSTARELEVMTAKYEGAKVYVLEERQRFQEEQK 1532
QY 148 ETKQAREEAHRL-----KCKMTMEQTELLLOSQR--SEVEEMIRDMGOGOSA 193
DB 1533 LTAQVEELSKKLADSDQASKYQOQKRLKAVQAQGESQOEAFQFOALNELOAOLSOKEQA 1592
QY 194 VEQLAVVCVSLKKEVENLKFAKATGE--LADRLKKDLVSSRKLTLNTELDOAKTEL 250
DB 1593 AEHYKLQMEKAKTHYDAKQONQLOELQRLSLEQLEKNEKLRAEAELGHELDQAGKLT 1652
QY 251 RSAQKDLQSAQDEITSLRKSDDPRGNLEPASATNETVSRVFPSPAPVEMMNPLHQPP 310
DB 1653 KEAFQTCCHLTAQVRSLEQVAHNDQQLRDGKFOVATDALKSREPAKPOLDLISI---- 1708
QY 311 FGDEIDLN---TFPDVNT--PPTQTSQ-----SCHCLPKKLCLE----- 344
DB 1709 --DSLDSCEEGTPLSTISKLPRTQPDQTSVGPBPASISQRLPPKVESLESLYFTPIPA 1766
QY 345 RABSPMQNVLKVKHKVSKPESQSLSGQR-----CVGEILD-ELLAGAFPLF--IRN 392
DB 1767 RSQAPLESLSLDGVDVLDGSRKTRSAKRRRTQIINITMKKLVLEEDDSANSSFYSTRS 1826
QY 393 AVLQCKQPNRTTAASRSSTDVVRIGFDGIGRTFTQIP--BDTIIIRVVPYKSAKSKOK 450

Db 1533 LTAQVEELSKKLADSDQASKVQOQKLAQAQOGESQOEAQFQAQINELQAOLSOKEQA 1592
QY 194 VEQLAVYCVSLKKEYNLKEARKATGE---LADRLKKDLVSSRSKLTINTLTDQAKLEL 250
Db 1593 AEHLKQMEKAKTHYDAKKQONQELQOLRSLEOLQENKELRAEAERLGHEDQAGIKT 1652
QY 251 RSAQKDLQSAQDEITSLRRKSDPPGNLEPASATNETVSRVLFESPAVEMNRLHQPP 310
Db 1653 KEAQOTCRHLTAQVRSLEAQVAHADQQLRDLGKFOVATDALKSREPOAKPOLDLSTI----- 1708
QY 311 FGDEIDLN---TFEDVNT--PPTQTSQ-----SQHCLPKKLCLE----- 344
Db 1709 --DSLDSCEGTPPLSTSKLPRTQPDGTSVGPSPASISQRLPPKVESLESILYFTPIPA 1766
QY 345 RARSPMONVLKVKHVKSPESQSLGQOR-----CVGEILD-EELAGAFPLF--IRN 392
Db 1767 RSQAPLESSLSDGLDVFLDSGRKTRSAARRTQIINTMTKKLVEEPDSANSSFYSTRS 1826
QY 393 AVLGOKQPNRTTASRSSTDVVRIGFDGLGRTKFIQ--RDTTIIIRPVYKSAKSKOK 450
Db 1827 APASQASLRATS---STQSLARLSPDYGNALLSLPGVRPTT-----RSSARRSQ- 1874
QY 451 VRITVSSASQPKLDTF---LCQ 470
Db 1875 ---AGVSSGAPPGNRNSPFYMGTCQ 1894

RESULT 32
US-08-195-487-4
; Sequence 4, Application US/08195487
; Patent No. 5783403
; GENERAL INFORMATION:
; APPLICANT: TONKATLY, GARY
; TITLE OF INVENTION: NOVEL MALIGNANT CELL TYPE MARKERS OF THE
; TITLE OF INVENTION: INTERIOR NUCLEAR MATRIX
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: TESTA HORWITZ & THIBEAULT
; STREET: 53 STATE STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/195,487
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/901,701
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: PITCHER ESO, EDMUND R
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: MTP-013
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/248-7000
; TELEFAX: 617/248-7100
; INFORMATION FOR SEQ. ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2101 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-195-487-4

Query Match 6.4%; Score 152.5; DB 1; Length 2101;

Best Local Similarity 21.3%; Pred. No. 0.00061;
Matches 107; Conservative 78; Mismatches 213; Indels 105; Gaps 21;
QY 44 RTCPCQRQ---VGKTIINKLFFDLAQEEFN-----LDAELKMDLSDVYKQOLSK- 93
Db 1421 RTAQOLRAEKASVYAEQJLSEMLKAGGLAEENRGGERANLGRQFLVELELDAREKRYQEL 1480
QY 94 ---DREKRDQALIDPLRDLERNAATVESLONALNKAE-MCSTLTKKQMKMLEROD 147
Db 1481 AAVRADAETR-----LAEVOREAOSTARELEVMATKYGAKVYKLEERQREOROK 1532
QY 148 ETKQAREBAHRL-----KCKMKTMEQTELLQSOR--SEVEEMTRDMGVGQSA 193
Db 1533 LTAQVEELSKKLADSDQASKVQOQKLAQAQOGESQOEAQFQAQINELQAOLSOKEQA 1592
QY 194 VEQLAVYCVSLKKEYNLKEARKATGE---LADRLKKDLVSSRSKLTINTLTDQAKLEL 250
Db 1593 AEHLKQMEKAKTHYDAKKQONQELQOLRSLEOLQENKELRAEAERLGHEDQAGIKT 1652
QY 251 RSAQKDLQSAQDEITSLRRKSDPPGNLEPASATNETVSRVLFESPAVEMNRLHQPP 310
Db 1653 KEAQOTCRHLTAQVRSLEAQVAHADQQLRDLGKFOVATDALKSREPOAKPOLDLSTI----- 1708
QY 311 FGDEIDLN---TFEDVNT--PPTQTSQ-----SQHCLPKKLCLE----- 344
Db 1709 --DSLDSCEGTPPLSTSKLPRTQPDGTSVGPSPASISQRLPPKVESLESILYFTPIPA 1766
QY 345 RARSPMONVLKVKHVKSPESQSLGQOR-----CVGEILD-EELAGAFPLF--IRN 392
Db 1767 RSQAPLESSLSDGLDVFLDSGRKTRSAARRTQIINTMTKKLVEEPDSANSSFYSTRS 1826
QY 393 AVLGOKQPNRTTASRSSTDVVRIGFDGLGRTKFIQ--RDTTIIIRPVYKSAKSKOK 450
Db 1827 APASQASLRATS---STQSLARLSPDYGNALLSLPGVRPTT-----RSSARRSQ- 1874
QY 451 VRITVSSASQPKLDTF---LCQ 470
Db 1875 ---AGVSSGAPPGNRNSPFYMGTCQ 1894

RESULT 33
US-08-483-924-4
; Sequence 4, Application US/08483924
; Patent No. 5882876
; GENERAL INFORMATION:
; APPLICANT: TONKATLY, GARY
; TITLE OF INVENTION: NOVEL MALIGNANT CELL TYPE MARKERS OF THE
; TITLE OF INVENTION: INTERIOR NUCLEAR MATRIX
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: TESTA, HORWITZ & THIBEAULT
; STREET: 125 HIGH STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,924
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: PITCHER ESO, EDMUND R
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: MTP-013
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248-7000
; TELEFAX: (617) 248-7100

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2101 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-483-924-4

Query Match 6.4%; Score 152.5; DB 2; Length 2101;
Best Local Similarity 21.3%; Pred. No. 0.00061;
Matches 107; Conservative 78; Mismatches 213; Indels 105; Gaps 21;

44 RTCCPCRIO-----VGKRTIINKLFFDLAEOEENV-----LDAEFLKLNELSVKAOISOK- 93
1421 RTAQQLRAREKASYAEQSLMKKANGHLLAEENRGGERANLGRQLEVLDDAREKYVDEL 1480
94 -----DREKRDQAIIIDRLDLEERNATVESLONALKAE-MCSTLKQMKFLEOROD 147
1481 AAVRADAEETR-----LAEVOREAQSTARELEVMYAKYGAKVKVLEERORFOEEROK 1532
148 ETKQAREEAHL-----KCKKMTMEQIELLQSOR--SEVEEMIRDMGVGSA 193
1533 LTAQVEELSKRLADSDQASKVQOQRLKAVQAQGGESQGEAORFOQQLNELQAQISQKQEA 1592
194 VEOLAVYCVSLKKEYENLEAKKATGE--LADRLKDLVSSRSKLTNTLTDQAKLEL 250
1593 AEHYKQLQMEKAKTHYDAKKQNOQELQRLSLEQLQENKELRAEAERLGHLEQAGLKT 1652
251 RSAQKDLOSADOEITSLRKSDDPPGNELEPASATNETVSRVLESPAPAEVEMNRLHOP 310
1653 KEAQOTCHLTAQVRSLEAQVAHADQQLRDLGKFQVATDAKSRBPQAKPOLDLISI----- 1708
311 FGDEIDLN-----TFEDVNT--PPTQTS-----SOHCPLKRLCLE----- 344
1709 --DSLDLSCERGTPLSITSKLPRTQPDGTSVGPBPASISQRLPKVLSLSLFTPIPA 1766
345 RARSPQWNLKRVHKSRESQSLSGOR-----CVGELD-EELAGAFPLF--IRN 392
1767 RSQAPLESLSLDGVLFDGSKRTSARRRRTQIINITMTKKLDVEEDSANSSTYSTRS 1826
393 AVLQOKOPNRTTAESRSTDVVRIGFDLGRTRKFIQ--RDTTIIRPVYKSAKSKOK 450
1827 APASQASLRATS---STOSLARLGSPPYGNALSLLPGYRPTT-----RSSARRSQ- 1874
451 VRKTVSSASQPKLDTF---LCQ 470
1875 ---AGVSSGAPGRNSFYMGTCQ 1894

RESULT 34
US-09-452-294-1
Sequence 1, Application US/09452294
Patent No. 6287790
GENERAL INFORMATION:
APPLICANT: Lelievre, Sophie
APPLICANT: Bissell, Mina
TITLE OF INVENTION: UTILIZATION OF NUCLEAR STRUCTURAL PROTEINS FOR TARGETED
TITLE OF INVENTION: THERAPY AND DETECTION OF PROLIFERATIVE AND
FILE REFERENCE: IB-1454- Sequence Submittal
Patent No. 6287790
CURRENT APPLICATION NUMBER: US/09/452,294
CURRENT FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: 60/110,420
PRIOR FILING DATE: 1998-11-30
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 2101
TYPE: PRT
ORGANISM: Homo sapiens
US-09-452-294-1

Query Match 6.4%; Score 152.5; DB 4; Length 2101;
Best Local Similarity 21.3%; Pred. No. 0.00061;
Matches 107; Conservative 78; Mismatches 213; Indels 105; Gaps 21;

44 RTCCPCRIO-----VGKRTIINKLFFDLAEOEENV-----LDAEFLKLNELSVKAOISOK- 93
1421 RTAQQLRAREKASYAEQSLMKKANGHLLAEENRGGERANLGRQLEVLDDAREKYVDEL 1480
94 -----DREKRDQAIIIDRLDLEERNATVESLONALKAE-MCSTLKQMKFLEOROD 147
1481 AAVRADAEETR-----LAEVOREAQSTARELEVMYAKYGAKVKVLEERORFOEEROK 1532
148 ETKQAREEAHL-----KCKKMTMEQIELLQSOR--SEVEEMIRDMGVGSA 193
1533 LTAQVEELSKRLADSDQASKVQOQRLKAVQAQGGESQGEAORFOQQLNELQAQISQKQEA 1592
194 VEOLAVYCVSLKKEYENLEAKKATGE--LADRLKDLVSSRSKLTNTLTDQAKLEL 250
1593 AEHYKQLQMEKAKTHYDAKKQNOQELQRLSLEQLQENKELRAEAERLGHLEQAGLKT 1652
251 RSAQKDLOSADOEITSLRKSDDPPGNELEPASATNETVSRVLESPAPAEVEMNRLHOP 310
1653 KEAQOTCHLTAQVRSLEAQVAHADQQLRDLGKFQVATDAKSRBPQAKPOLDLISI----- 1708
311 FGDEIDLN-----TFEDVNT--PPTQTS-----SOHCPLKRLCLE----- 344
1709 --DSLDLSCERGTPLSITSKLPRTQPDGTSVGPBPASISQRLPKVLSLSLFTPIPA 1766
345 RARSPQWNLKRVHKSRESQSLSGOR-----CVGELD-EELAGAFPLF--IRN 392
1767 RSQAPLESLSLDGVLFDGSKRTSARRRRTQIINITMTKKLDVEEDSANSSTYSTRS 1826
393 AVLQOKOPNRTTAESRSTDVVRIGFDLGRTRKFIQ--RDTTIIRPVYKSAKSKOK 450
1827 APASQASLRATS---STOSLARLGSPPYGNALSLLPGYRPTT-----RSSARRSQ- 1874
451 VRKTVSSASQPKLDTF---LCQ 470
1875 ---AGVSSGAPGRNSFYMGTCQ 1894

RESULT 35
PCT-US93-06160-4
Sequence 4, Application PC/TUS9306160
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: NOVEL MALIGNANT CELL TYPE MARKERS OF THE
TITLE OF INVENTION: INTERIOR NUCLEAR MATRIX
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA HURWITZ & THIBEAULT
STREET: 53 STATE STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/06160
FILING DATE: 19930621
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER ESQ, EDMUND R
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: MTP-013
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/248-7000

TELEFAX: 617/248-7100
 : INFORMATION FOR SEQ ID NO: 4:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 2101 amino acids
 : TYPE: amino acid
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 PCT-us93-06160-4

Query Match 6.4%; Score 152.5; DB 5; Length 2101;
 Best Local Similarity 21.3%; Pred. No. 0.00061;
 Matches 107; Conservative 78; Mismatches 213; Indels 105; Gaps 21;

QY 44 RTGQCRIQ-----VGKTIINKLFFDLAQEEENY-----LDAEFLKNDLSVKQKLSQK- 93
 DB 1421 RTAQQLREKASYADQSLMKLKAHGLAEENRGJGERANLGRPLEVLDQAREKYYDEL 1480
 QY 94 -----DREKRDQAIIIDLRDTLEERNATVESLONALNKA-MLCSTLKQMKFLEQRD 147
 DB 1481 AAVARADAEFR-----LAEVQREASTARELEVMTAKYGAKYKVLVEERQRFQEEKQK 1532
 QY 148 ETKQAREBAHRL-----KCKMKTMEQIELLLQSQR--SEVEEMIRDMGVGQSA 193
 DB 1533 LTAQVEELSKKLADSDQASKYQOQKIKAVQAQGESQOEAQRFQQLNELQAQLSQKBOA 1592
 QY 194 VEOLAVYCVSLKKEYENKEKRAKATGE---LADRLKDLVSRSKLKTLLNTELDQAKLEL 250
 DB 1593 AEHYKLEMEKAKTHYDAKQONQELQELRSLEQKQENKELRAEAEELGHELOQAQIKT 1652
 QY 251 RSAQKDLQASADQETLSLRKKSDDPPGNLEPASATNETVSRLVFESPAVEEMNPLHQPP 310
 DB 1653 KEAQOTCHLTAQVRSLEAQVAHADQQLRDGKFOVATDAKSKREPAKKPQLDLSI----- 1708
 QY 311 FGDEIDLN---TFPDVNT--PPTQTSG-----SQHCLPKKLCLE----- 344
 DB 1709 --DLDLISCEBGTPLSTISKLPRTQPDGTSVGPBPASPIQSLPPKVESLSLFTPIPA 1766
 QY 345 RARBPQNVNLKKYKVSRESQSLSGQR-----CVELD-ELAGAFPLF--IRN 392
 DB 1767 RSQAPLESLSLDLDVFLDSGRKTRRSARRRTQIINITMKRLDVEEDSANSSEYSTRS 1826
 QY 393 AVLQOKOPNRTTAESSRSTDVVRIGFDLGRTKFTOP--RDTTILRPVPSKAKSKOK 450
 DB 1827 APAQASLRATS-----STQSLARLGSPPYGSALLSLPGYRPT-----RSSARRSQ- 1874
 QY 451 VRITVSSASQPKLDTF---LCQ 470
 DB 1875 ---AGVSSGAPPGGRNSPFYMGTCQ 1894

RESULT 36
 US-09-085-199B-11
 : Sequence 11, Application US/09085199B
 : Patent No. 6235879
 : GENERAL INFORMATION:
 : APPLICANT: Hayden, Michael R.
 : APPLICANT: Hackam, Abigail
 : APPLICANT: Hug, A.H.M. Mahbubul
 : APPLICANT: Chopra, Vikramjit Singh
 : APPLICANT: Kalchman, Michael
 : TITLE OF INVENTION: Apoptosis Modulators That Interact with the
 : NUMBER OF SEQUENCES: 44
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Opedahl & Larson
 : STREET: PO Box 5270
 : CITY: Frisco
 : STATE: CO
 : COUNTRY: USA
 : ZIP: 80443-5270
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Kb storage

COMPUTER: IBM Compatible
 OPERATING SYSTEM: MS DOS 5.0
 SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/085.199B
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Larson, Marina T
 REGISTRATION NUMBER: 32038
 REFERENCE/DOCKET NUMBER: UBC-P-013052
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (970) 668-2050
 TELEFAX: (970) 668-2052
 : INFORMATION FOR SEQ ID NO: 11:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1068
 : TYPE: amino acid
 : TOPOLOGY: linear
 : MOLECULE TYPE: protein
 : HYPOTHETICAL: no
 : ORIGINAL SOURCE:
 : ORGANISM: mouse
 : FEATURE:
 : OTHER INFORMATION: Huntington-interacting protein -mhipla
 US-09-085-199B-11

Query Match 6.2%; Score 149; DB 4; Length 1068;
 Best Local Similarity 20.1%; Pred. No. 0.00046;
 Matches 67; Conservative 68; Mismatches 100; Indels 98; Gaps 12;

QY 30 HLCCLIQEFETAPRSCTQCRIQV-----GKTIINKLFFDL-----ADDEENVLDAE 77
 DB 298 HIKPVYVPEEAPPEEENLEISAPBAPVAVDLFDQTPGPPGSMKDRDQIE 357
 QY 78 FLKNELDQSVKQLSO-----KDBEKRDSQAIIPT--LDRYLE 112
 DB 358 NUKREVETRLAELEKIKMEADRYISQLKGQVNGLEAELEEDQKQKALVDNEQLRHFLA 417
 QY 113 ERNATVESLQNALN---KAEMLCSTLKQMKFLEQRD----- 148
 DB 418 QLKAL--QLEGARNOGLEEAERKASATEARYSKLKEHSELINTHAEILKKNADTAQKL 475
 QY 149 --TQAREEARLCKMK-TWEQT---ELLQSRSEVEEMIRDMGVGQSAVEQLAVYC 201
 DB 476 TVTQOSQEEVARYVEQLAFQMEQAKRESEMKKEQSDQLEKLR-----ELARA 525
 QY 202 VSLKKEYENLEKARKATGELADRLKDLVSSRSKLTNTLELD-----QAKLELRGAQ 254
 DB 526 GELARQALSTRTEQSGSELS-----SRLDITLMAEKALSGVVRQREALLAAQ 574
 QY 255 KDLQADQETLSLRKKSDDPPGNLEPASATNET 287
 DB 575 SLVREKEALSQEQRRSQQEKELRGQLAKES 607

RESULT 37
 US-08-098-327E-31
 : Sequence 31, Application US/08098327E
 : Patent No. 6270771
 : GENERAL INFORMATION:
 : APPLICANT: GUERIN-MARCHAND, Claudine
 : APPLICANT: DRULHE, Pierre
 : TITLE OF INVENTION: PEPTIDE SEQUENCES SPECIFIC FOR THE
 : TITLE OF INVENTION: HEPATIC STAGES OF P. FALCIPARUM BEARING EPITOPES CAPABLE
 : NUMBER OF SEQUENCES: 46
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Burns, Doane, Swecker & Mathis
 : STREET: P.O. Box 1404
 : CITY: Alexandria
 : STATE: Virginia


```
US-07-853-913-2
; Sequence 2, Application US/07853913
; Patent No. 5338839
; GENERAL INFORMATION:
; APPLICANT: McKay, Ronald D.G.
; APPLICANT: Lendahl, Urban
; TITLE OF INVENTION: Nestin Expression As An Indicator of
; TITLE OF INVENTION: Neuroepithelial Tumors
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/853,913
; FILING DATE: 19920319
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/660,412
; FILING DATE: 22-FEB-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/603,803
; FILING DATE: 25-OCT-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/201,762
; FILING DATE: 02-JUN-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/180,548
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: MIT-4641AAAA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1805 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-853-913-2

Query Match 6.1%; Score 146.5; DB 1; Length 1805;
Best Local Similarity 23.1%; Pred. No. 0.0016;
Matches 88; Conservative 63; Mismatches 155; Indels 75; Gaps 17;

QY 66 LAQEEENVDAEFLKNELDVKNQLOSKDRE-KRDSQAIIIDTLRDTLEENNAVESQNA 124
DB 883 IPOSETOVSLRPEEDDRIIVNHLKESQESFSRSEEDQVMSRLEGNH--ESLSV 940
QY 125 LNKAEMLCSTLKKOM---KFLERODET--KQAREFAHRLCKMKMEOIELLOSORS 178
DB 941 EKEDQAVESOLEKSDSGSLDESEFTGPLEKENAESLR-SLAGQDDE---QKLEQ 996
QY 179 EYEMIRDMGVGSAVEQQLAVYCVSLKKEYENLKARKATGELADRLKDLVSSRSK-- 235
DB 997 ETQOTLRAGVNEQMAVSPPEKVDPELPKPLGNDQELARSIGK--ENQESLVSLEKRG 1053
QY 236 -LKTMLTELDOAKLETLRSQKDLQ-----SADQELTSLKSKSDPPGNCLEPAS 282
DB 1054 TVNSLETEIIE---PLETAEDLERKRSIDTQEPMLWSTEVAREVEPDEPPGSLGSD 1110
QY 283 ATNETVSRIVFESPAVEEMNPRLOPPFGDEIDLNTTFDVNTPTPTQTSQSOCLPKKLC 342
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Db 1111 ENRETLTSLEKES-----QELSLGKMWVE---TVEDSQOCLQVEEG 1150
QY 343 LERARSPMNVLVKRVHVSFPESOLSLGQRCRGELDEELAGAPFLIRNNAVIGQKOPNR 402
DB 1151 LQEBQH--QEBLREV-KQELPSS---GNQDRMEDV-----VEGRKAOEAPLA 1192
QY 403 TTASRSSTDVYVRIGFDGLG 423
DB 1193 TTGV--GTEDKAEFLHKGQGG 1211

RESULT 40
US-08-592-126-148
; Sequence 148, Application US/08592126
; Patent No. 5821091
; GENERAL INFORMATION:
; APPLICANT: Gregory Dolganov
; TITLE OF INVENTION: Transcripts Encoding Immunomodulatory
; TITLE OF INVENTION: Polypeptides
; NUMBER OF SEQUENCES: 151
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Avenue, Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/592,126
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sholtz, Charles K.
; REGISTRATION NUMBER: 38,615
; REFERENCE/DOCKET NUMBER: 4600-0111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1312 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Rad50.pro-translation of SEQ ID NO:54
; US-08-592-126-148

Query Match 6.1%; Score 146; DB 2; Length 1312;
Best Local Similarity 21.5%; Pred. No. 0.0011;
Matches 98; Conservative 74; Mismatches 151; Indels 132; Gaps 21;

QY 52 QVGGKTIINKLFLPLAGEE-----ENVLD-----AEFL---KNEIDSVKAO 89
DB 404 QEGFAKTANDMDFAKETLKKOKOIDEINDKKTGCLRIITLSEILSKKONELKNVKE 463
QY 90 LSQ-----KDBREKDSQAIIIDTLRD-TLEERNATVE-----SLQNALNKAEMLCSTLKK 137
DB 464 LQOLEGSSDRILDELQELIYAERLSKAENSNVETLKMVEYISQN--EKAD-LDRTLRK 520
QY 138 QMKFLEQRQDETQKQAREFAHRLCKMKMTMQEIELLOSQSEVEMTRDMGVGSAVEQL 197
DB 521 LDQEMQLNHTT-----TTRQMEMLTIRDKADKDEQIIRKISRSHSDELTSL 566
QY 198 AVYCVSLKKEYENLKARKATGELADR---LKKDLVSSRSKLTATLNTLDOAKLELSAQ 254
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Db 567 LGYFPNKKQLEWMLHSHKSKKEINQTRDLAKLNKLASSEONKNHINNELKRRREQLSYE 626
QY 255 KDL-----QSADEITSLR---KSDPPGNNLEPASAT-NETVSRLYFESPAPVEMMNP 304
Db 627 DKLEPVCSSODFESDLRLKEIEIEKSSKORAMLAGATAVYSOFITOL----- 673
QY 305 RLHOPPFGEIDLNTTFVNTPPPTQTSOGHCLPKKLC-----LEPARSPMUNYK 355
Db 674 -----TDENQSCP--VCORVFQTEAELOEVIISDLQSKLR 706
QY 356 KV-HKVSKEPESQLSGQRCVGEDELDELAFPLFIRNAVLGOKO--PNRTTAESSST 411
Db 707 LAPDLKSTESSELKKKKER-----RDEMLGLVPM--RQSIIDLKEKEIPELRNKLQNVNR 759
QY 412 DVVRIGFGLGRTKFIQPROTTIRPVPVKSAR 446
Db 760 DIQRLKND-----IEOEITLGTIMPEESAK 786

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Search completed: September 4, 2002, 16:10:56
 Job time: 7595 sec